

# BLT5BPT680LN1#

“#” at the end indicates the package specification code.

In Production

RoHS

REACH

## < List of part numbers with package codes >

BLT5BPT680LN1B

BLT5BPT680LN1L

## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specific Applications    | <p>Consumer equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy equipment</p> <p>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.</p> |
| Recommended Applications | Consumer equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Packaging Information

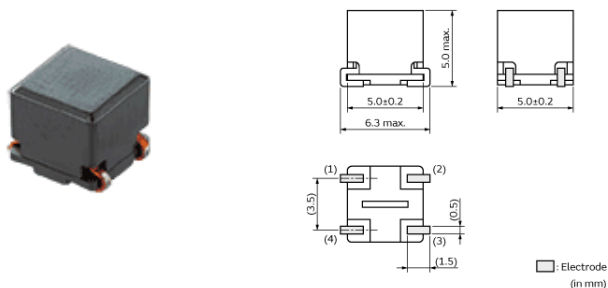
| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 50                        |
| L         | 180mm Embossed Tape | 300                       |

## Features

1. It can be used under the -55 °C to +150 °C usage environment.
2. Meets large current up to 11Amax. suitable for power lines.
3. Meets to surface mounting.
4. Good bias current characteristics enables less drop down of impedance under large current.

Application  
General power lines.

## Appearance & Shape



### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Specifications

|                                    |                |
|------------------------------------|----------------|
| Shape                              | SMD            |
| Size Code (in inch)                | 2020           |
| Length                             | 5.0mm          |
| Length Tolerance                   | ±0.2mm         |
| Width                              | 5.0mm          |
| Width Tolerance                    | ±0.2mm         |
| Thickness                          | 5.0mm          |
| Thickness Tolerance                | max.           |
| Operating Temperature Range        | -55°C to 150°C |
| Mass(typ.)                         | 0.48g          |
| Number of Circuit                  | 1              |
| Rated Current (at 85°C)            | 11A            |
| Rated Current (at 125°C)           | 7A             |
| Rated Current (at 150°C)           | 4.5A           |
| DC Resistance(max.)                | 10mΩ           |
| Impedance (at 100MHz)              | 68Ω            |
| Impedance (at 100MHz)<br>Tolerance | (Typ.)         |
| Size Code (in mm)                  | 5050           |

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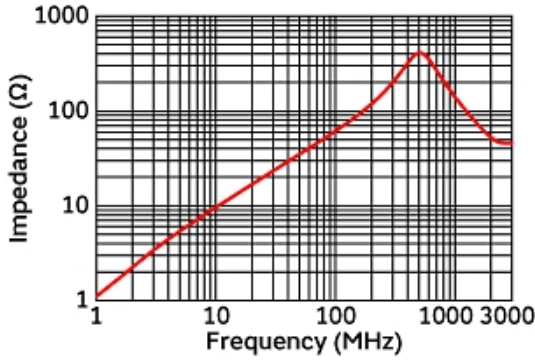
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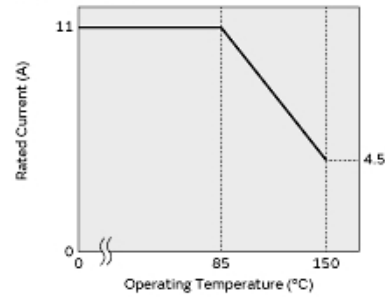
## Product Data



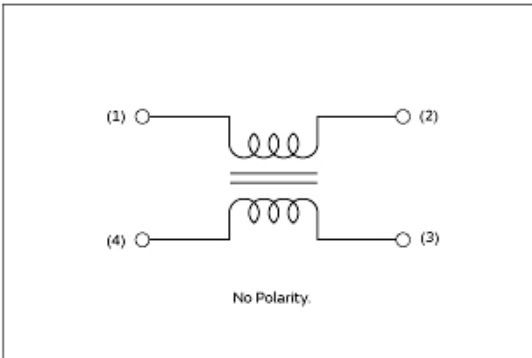
Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for BLT5BPT\_LN1 series. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



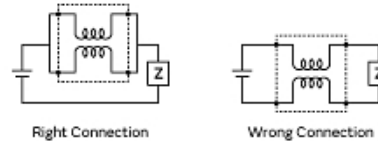
Derating of Rated Current



Equivalent Circuit

Connect terminal rightly.

This product consists of two coils. When it is connected to the same power source line and used as a coil, its inherent properties can be obtained. When it is connected to separate power source lines, serious trouble such as open or short circuit or flames due to extreme heat generation occurs.



Notification about terminal connection

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